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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/587,559	07/31/2006	Sung-Tae Kim	5038-061176	8932	
28:289 75:50 606242:008 THE WEBB LAW FIRM, P.C. 700 KOPPERS BUILDING 436 SEVENTH AVENUE			EXAMINER		
			WOOD, KEVIN S		
PITTSBURGH			ART UNIT	PAPER NUMBER	
			2874		
			MAIL DATE	DELIVERY MODE	
			06/24/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)	
10/587,559	KIM ET AL.	
Examiner	Art Unit	
Kevin S. Wood	2874	

Office Action Summary	Examiner	Art Unit	
	Kevin S. Wood	2874	
The MAILING DATE of this communication app			ddress
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. I - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If all the properties of t	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,
Status			
Responsive to communication(s) filed on			
	action is non-final.		
3)☐ Since this application is in condition for allowar		secution as to th	e merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.	
Disposition of Claims			
· _			
4) Claim(s) 1-14 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrav 5) Claim(s) <u>1-10</u> is/are allowed.	will from consideration.		
6)⊠ Claim(s) <u>11-14</u> is/are rejected.			
7) Claim(s) is/are rejected.			
8) Claim(s) are subject to restriction and/o	r election requirement		
	, olovilor rodanomorni		
Application Papers			
9)☐ The specification is objected to by the Examine			
10)⊠ The drawing(s) filed on <u>31 July 2006</u> is/are: a)[•	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the correct			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority document 	s have been received.		
Certified copies of the priority documents	s have been received in Applicati	ion No	
 Copies of the certified copies of the prior 	rity documents have been receive	ed in this Nationa	l Stage
application from the International Bureau	u (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	of the certified copies not receive	ed.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate	
3) X Information Disclosure Statement(s) (PTO/S5/05) Pager No(s)/Mail Date 1/30/2008	5) Notice of Informal F	Patent Application	

4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Application 6) Other:	
	Paper No(s)/Mail Date. 5] ☐ Notice of Informal Patent Application

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DETAILED ACTION

Information Disclosure Statement

 The information disclosure statement (IDS) submitted on 30 January 2008 has been considered by the examiner.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- Claims 11 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being
 indefinite for failing to particularly point out and distinctly claim the subject matter which
 applicant regards as the invention.
- Claim 11 recites the limitation "the laminated coating method" in 4th and 5th lines
 of the claim. There is insufficient antecedent basis for this limitation in the claim.
- Claim 14 recites the limitation "the laminated coating method" in the 2nd line of the claim. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S.
 Patent Application Publication No. 2003/0151704 to Kawamoto et al. (hereafter referred to as the Kawamoto reference).

Referring to claims 11-13, The Kawamoto reference discloses all the claimed structural limitations. The Kawamoto reference discloses a liquid crystal display, wherein two or more cholesteric liquid crystal layers (12,13) having different selective light-reflecting central wavelengths are laminated sequentially in order from shorter wavelength to longer wavelength in a laminated coating method to form a broadband reflective polarizing plate (1) covering the range of visible light as a selective reflection wavelength region, and then retardation film (21,22) is laminated on the broadband reflective polarizing plate (1) to form a reflective polarizing plate which in turn is disposed between a backlight (43) and a liquid crystal cell unit (6). See Fig. 1 through Fig. 5, along with their respective portions of the specification. The limitations directed to the method of making the device, including the limitation where "the two or more cholesteric liquid crystal layers being formed by repeatedly performing the steps of

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coating an orientation layer on a base film and drying a first orientation layer, coating a cholesteric liquid crystal solution on the base film in which said first orientation layer is coated and then irradiating said cholesteric liquid crystal solution layer with light to form a liquid crystal film", are Product by Process limitations. See MPEP section 2113. Only the structure claimed and the structure implied by the method steps determines the patentability of device claims. The Kawamoto reference meets all the claimed structural limitations as well as any that may be implied within the process steps.

Referring to claims 11-13, The Kawamoto reference discloses all the claimed structural limitations. The Kawamoto reference discloses the broadband reflective polarizing plate (1) manufactured by using a laminated coating method, wherein the broadband reflective polarizing plate in which the number of laminated structures of said first and second orientation layers and the cholesteric liquid crystal layer is two or more, is integrally formed with an absorption type polarizing plate or a diffusion plate being laminated in such a manner that an adhesive layer is interposed between the absorption type polarizing plate or the diffusion plate (5). Limitations directed toward the method of forming the device, such as "the reflective polarizing plate being fabricated in the method according to any one of claims 6 to 9", are Product by Process limitations. See MPEP section 2113. Only the structure claimed and the structure implied by the method steps determines the patentability of device claims. The Kawamoto reference meets all the claimed structural limitations as well as any that may be implied within the process steps.

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Allowable Subject Matter

Claims 1-10 are allowed.

9. The following is a statement of reasons for the indication of allowable subject matter: The primary reason for the allowability of these claims is the inclusion of the steps of coating the liquid crystal layer formed in (b) with a second orientation layer; then coating said second orientation layer with the cholesteric liquid crystal solution having different selective light-reflecting central wavelengths on to form a cholesteric liquid crystal coating layer; and then irradiating said cholesteric liquid crystal coating layer with UV to form a cholesteric liquid crystal film. The prior art does not teach nor suggests these steps in combination with the other steps claimed within independent claim 1 or independent claim 6.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin S. Wood whose telephone number is (571) 272-2364. The examiner can normally be reached on Monday-Thursday (7am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney B. Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KSW

/Kevin S Wood/ Primary Examiner, Art Unit 2874